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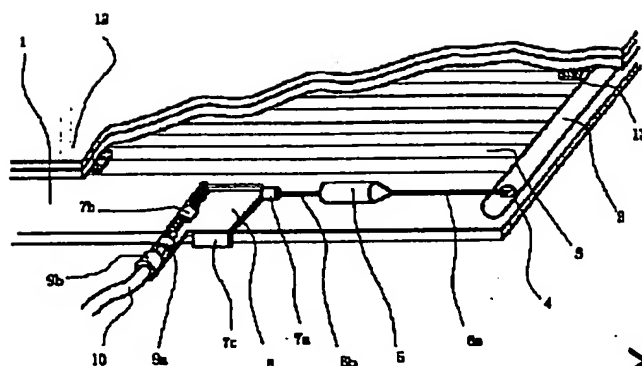
APPLICATION DATE : 09-10-91  
APPLICATION NUMBER : 03289514

APPLICANT : CANON INC;

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INT.CL. : G02F 1/133

TITLE : ELECTRONIC EQUIPMENT  
CONTAINING PANEL HEATER



ABSTRACT : PURPOSE: To prevent the fusion in the normal operation of a panel heater and the non-fusion when the heater is energized by mounting a thermal fuse on the panel of the heater.

CONSTITUTION: A panel heater 1 patterned with an ITO film or  $\text{SiO}_2$  is provided to a glass substrate as a heating element, and the pattern is eliminated at the part on which a thermal fuse 5 and a lug 8 are mounted. When the heater 1 runs away, the temp. is detected by the fuse 5 which is fused, and the supply of current to the heater 1 from a heater driving circuit is stopped. One lead 6a of the fuse 5 is connected to the electrode 2 of the heater 1, and the other lead 6b is fixed to the lug 8. Accordingly, when the temp. limit  $T_{\text{max}}$  of the heater 1 to prevent ignition and fuming is set at  $250^\circ\text{C}$  and  $T_{\text{min}}$  at  $130^\circ\text{C}$ , the current supply is surely stopped when the heater 1 runs away to  $200^\circ\text{C}$  by setting the fusion temp. of the fuse 5 at  $135^\circ\text{C}$ .

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